

WisWAP Line Items: 1 to 4 Unit Measures

Measure	General Policy	Code	Description	Unit of Measure	Housing Types	Neat Modeling	
Shell Measures							
Air Sealing	Use Blower Door to guide sealing work, whenever possible. Use Zone Diagnostics where appropriate or required. Seal all major bypasses and key junctures. Follow the Weatherization Cost Effective Sealing Guidelines.	ABD	Air Sealing	each		Do not model air sealing with NEAT. Enter Pre & Post estimates	
		ABD005	Comfort Sealing -Non Blower Door Guided	CFM50	SFH,MHT,2TO4,AMUB		
		ABD007	WCEG Guided Sealing	Reduction			
		ABD010	Blower Door Setup	each			
ABD015	Non-Guideline Sealing	each					
Attic and Kneewall Insulation	Insulate to R-50 if existing insulation is less than R-30.	DIA	Attic Insulation		SFH,2TO4,AMUB	Model attic insulation for units which must be modeled with NEAT.	
		DIA005	Blown Cellulose - Floored R11	sq ft			
		DIA010	Blown Cellulose - Floored R19				
		DIA015	Blown Cellulose - Floored R30				
		DIA020	Blown Cellulose - Floored R38				
		DIA025	Blown Cellulose - Unfloored R11				
		DIA030	Blown Cellulose - Unfloored R19				
		DIA035	Blown Cellulose - Unfloored R30				
		DIA040	Blown Cellulose - Unfloored R38				
		DIA043	Blown Cellulose - Unfloored R50				
		DIA045	Blown Fiberglass - Floored R11				
		DIA050	Blown Fiberglass - Floored R19				
		DIA055	Blown Fiberglass - Floored R30				
		DIA060	Blown Fiberglass - Floored R38				
		DIA061	Blown Fiberglass - Floored R50				
		DIA085	Blown Fiberglass - Unfloored R11				
DIA090	Blown Fiberglass - Unfloored R19						
DIA095	Blown Fiberglass - Unfloored R30						
DIA100	Blown Fiberglass - Unfloored R38						
DIA101	Blown Fiberglass - Unfloored R50						
DIA105	Fiberglass Batt R11						
DIA110	Fiberglass Batt R19						
DIA115	2 Part Foam						
DIA120	Attic Access	each					
Floor Insulation	Insulate floors that define heating envelope to maximum structurally allowable.	DIFL	Floor Insulation		SFH,2TO4,AMUB	Model floor insulation, based on heating envelop, for units which must be modeled with NEAT.	
		DIFL005	Blown Fiberglass - R11	sq ft			
		DIFL010	Blown Fiberglass - R19				
		DIFL015	Blown Fiberglass - R30				
		DIFL020	Blown Fiberglass - R38				
		DIFL045	Polystyrene Insulation Board R5				
		DIFL050	Fiberglass Batt R11				
		DIFL055	Fiberglass Batt R19				
		DIFL060	Polyisocyanurate Insulation Board R7				
		DIFO	Foundation Insulation				
		DIFO005	2 Part Foam R10				
DIFO010	Fiberglass Batt R11	sq ft					
DIFO015	Fiberglass Batt R19	sq ft					

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Interior Foundation Treatments	Seal and Insulate sillbox area to R-19, or maximum structurally allowable, using appropriate material. Install vapor barrier	DIS	Sillbox Insulation	sq ft	SFH,2TO4,AMUB	Model boxsill & foundation insulation, based on heating envelop, for units which must be modeled with NEAT.
		DIS005	Fiberglass Batt R11			
		DIS010	Fiberglass Batt R19			
		DIS015	Polystyrene Insulation Board R10			
		DIS020	2 Part Foam R10		SFH,MHT,2TO4,AMUB	
Sidewall Insulation	Insulate cavities to R-13, or maximum structurally allowable.	DIW	Wall Insulation	sq ft	SFH,2TO4,AMUB	Model sidewall insulation, based on heating envelop, for units which must be modeled with NEAT.
		DIW005	Blown Cellulose - R13			
		DIW010	Blown Cellulose - R19			
		DIW015	Blown Fiberglass - R11			
		DIW020	Blown Fiberglass - R19			
		DIW025	Fiberglass Batt R11			
		DIW030	Fiberglass Batt R19			
Window Replacement	Replace windows as an Energy Conservation Measure if the measure has a SIR of \geq 1.0 when tested with the NEAT audit.	GWR	Window Replacement	sq ft	SFH,2TO4,AMUB	Model windows which meet protocol to determine ECM SIR.
		GWR015	Window Replacement U .35			
Mechanical Systems Measures						
Heating Systems: Tune and Clean. See specifications for other system types.	Natural Gas and LP Heating Systems, which will not be replaced, may receive a tune and clean based on inspection. Oil Heating Systems: Tune and clean the heating unit, unless it will be replaced.	JBM	Boiler Modifications	each	SFH,2TO4,AMUB	Model heating system work for units which must be modeled with NEAT. Order Tune & Clean, Vent Damps, IID, based on inspection and system requirements. Do not model with NEAT.
		JBM005	Automatic Fill Valve			
		JBM010	Compression Tank			
		JBM015	Electric Vent Damper			
		JBM020	Outdoor Reset			
		JBM025	Radiator New or Replacement			
		JBM030	Radiator Valves			
		JBM035	Backflow Preventer			
		JBM040	Modulating Aquastat			
		JBM045	Intermittent Ignition Device (IID)			
		JBM055	Zone Valves			
		JBM060	Distribution System Modifications			
		JHSM	Heating System Modifications			
		JHSM005	Clean and Tune	each	SFH,MHT,2TO4,AMUB	
		JHSM010	Disposable Filters			
		JHSM011	Cleanable Filters			
Programmable Thermostat	Install a programmable thermostat under the following conditions:the existing thermostat will be replaced and the occupant has both the desire and aptitude to program the thermostat.	JHSM015	Setback Thermostat	each	SFH,MHT,2TO4,AMUB	Use WI protocols to determine programmable thermostat installation.
Distribution System	Evaluate system, test. Modify as needed. Seal major return and supply leaks.	JHSM020	Repair/Replace/Add Ductwork - First Floor	each	SFH,MHT,2TO4,AMUB	Seal and insulate distribution systems based on WI protocols.
		JHSM025	Repair/Replace/Add Ductwork - Second Floor			
	Insulate and seal ducts in unheated areas.	JHSM030	Insulate Ducts	each	SFH,2TO4,AMUB	
		JHSM035	Seal Ducts			

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Heating Systems-Boilers	Model all boilers for replacement that are greater than 10 years old or have a SSE of < 75. Model all boilers for replacement with NEAT Audit. Model both 90%+ and >80% AFUE gas boilers. Install boiler with the highest SIR.	JHSR	Heating System Replacement	each	SFH,2TO4,AMUB	Model all boilers for replacement with NEAT Audit. Model both 90%+ and >80% AFUE gas boilers. Install boiler with the highest SIR.
		JHSR005	Gas Boiler			
		JHSR007	Gas Boiler - ENERGY STAR			
		JHSR035	Oil Boiler			
Heating Systems Replacement-Forced Air	Natural Gas Forced Air Furnaces: Replace if existing atmospheric unit has a SSE <=75% and has < a 5 year life expectancy. Inspect units with SSE >75% and more than 5-year life expectancy. Replacement must be ENERGY STAR eligible.	JHSR010	Gas Forced Air 90%	each	SFH,2TO4,AMUB	Model heating system replacements for units which must be modeled with NEAT.
		JHSR020	Gas Wall Furnace		SFH,MHT,2TO4,AMUB	
		JHSR040	Oil Forced Air		SFH,2TO4,AMUB	
Space Heaters	Replace units >10 years old with the highest efficiency unit available. f Inspect < than 10 years old for health and safety problems.	JHSR050	Oil Wall Furnace	each	SFH,MHT,2TO4,AMUB	Model heating system replacements for units which must be modeled with NEAT.
Space Heaters: Heating Systems-Electric Conversion	Furnaces And Baseboard Heaters: Replaced when lifecycle savings is equal to or exceeds a SIR 1.0, when modeled on the Electric Heat Conversion Worksheet.	JHSR060	Electric Conversion	each	SFH,MHT,2TO4,AMUB	Use WI Electric Baseboard worksheet to determine measure.
Water Heater Replacement	Electric Conversion. Replace an existing electric water heater with natural gas or LP water heater, based on protocol.	MWHC	Water Heater Conversion	each	SFH,2TO4,AMUB	Model water heater replacements for units which must be modeled with NEAT.
		MWHC010	Gas power vent from electric		SFH,MHT,2TO4,AMUB	
		MWHC030	Tankless On Demand Gas		SFH,2TO4,AMUB	
		MWHC035	Indirect Fired Water Heater			
		MWHR	Water Heater Replacement			
Baseload Measures						
Domestic Hot Water Treatments	Insulate 6' of pipes from water heater. Reduce water heater temperature to 125 degrees, where feasible. Install showerheads & low restrictors.	MWHT	Hot Water Treatments	each	SFH,MHT,2TO4,AMUB	DO NOT USE NEAT TO GUIDE LOW COST WATER SAVING RETROFITS! Use WI Protocols. DO NOT USE NEAT TO GUIDE TANK INSULATION. Insulate to a minimum of R-10 if manufacturers allows additional tank insulation.
		MWHT005	Flow Restrictors			
		MWHT010	Pipe Insulation			
		MWHT015	Reduce Temperature			
		MWHT020	Showerhead			
	Insulate water heater tanks with <R10 existing insulation.	MWHT025	Tank insulation		SFH,MHT,2TO4,AMUB	
Compact Fluorescent Lighting (CFLs)	Replace all incandescent light bulbs with ENERGY STAR qualified CFLs, where feasible. Replace all halogen torchieres with CFL torchieres.	PCFL	Lighting	each	SFH,MHT,2TO4,AMUB	Do not model CFL installation with NEAT.
		PCFL005	CFL Bulb			
		PCFL010	Halogen Torchiere Replacement			
		PCFL015	LED Exit Light			
		PCFL020	Exterior			
		PCFL025	CFL 3-Way Bulb		SFH,MHT,2TO4,AMUB	

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Refrigerator Replacement	Replace existing refrigerators manufactured prior to 1990, with properly sized ENERGY STAR eligible unit. De-manufacture and properly dispose of existing unit. Remove, de-manufacture and properly dispose of functional secondary refrigerators manufactured	URR URR005	Refrigerator Replacement	each	SFH,MHT,2TO4,AMUB	Use NEAT to model refrigerator replacement.
		URR010	Remove Additional Unit (include \$50 Incentive)	each	SFH,MHT,2TO4,AMUB	
Freezer Replacement	Replace functioning freezers operating in conditioned or unintentionally conditioned space, which have a Power Factor less than .75 and are greater than 14 cubic feet, with a properly sized ENERGY STAR eligible chest-type, manual defrost freezer. De-manuf	VFR VFR005	Freezer Replacement	each	SFH,MHT,2TO4,AMUB	Do not use NEAT to model freezers.
Freezer Removal	Remove functioning freezers, in conditioned or unintentionally conditioned space Offer a \$50 incentive for removal. De-manufacture and properly dispose of freezer that is being removed.	VFR010	Remove Additional Unit (include \$50 incentiv each		SFH,MHT,2TO4,AMUB	Do not use NEAT to model freezers.
Health and Safety Measures						
Hazard Elimination-General	Eliminate hazards that pose an imminent threat to the health and safety of occupants.	XHAC	Health and Safety Cooling	each	SFH,MHT,2TO4,AMUB	
Air Conditioning	Install central or room air conditioning based on the health of the customer. Specific statement of conditions from medical professional required. Replacement must be ENERGY STAR eligible.	XHAC005	Central A/C New or Replace	each	SFH,MHT,2TO4,AMUB	
		XHAC010	Window A/C New or Replace			
		XHAC015	A/C Repair			
		XHAC020	Ceiling Fan New or Replace			
Miscellaneous		XHAL	Health and Safety Alarms	each	SFH,MHT,2TO4,AMUB	Do not use NEAT to model health & safety measures. Select measure from "Itemized Cost Tab".
		XHAL005	CO Detector New or Replace			
		XHAL010	Smoke Detector New or Replace			
		XHAL020	Combo Smoke/CO Detector New or Rep			
		XHAP	Health and Safety Appliance			
		XHAP015	Appliance Repair or Replace			
		XHAQ	Health and Safety Air Quality			
		XHAQ005	Worst Case Draft Test			
		XHAQ007	Chimney Liner			
		XHAQ025	Dehumidifier New or Replace			
XHAQ030	Asbestos Removal					
XHAQ035	Other Remediation					
XHAQ040	Cook Stove Repair or Replace					

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Measure	General Policy	Code	Description	Unit of Measure	Housing Types	Neat Modeling
Health and Safety Measures Continued						
Mechanical Ventilation	Install properly sized and balanced mechanical ventilation when needed to assure indoor air quality.	XHAR	Health and Safety Ventilation	each	SFH,MHT,2TO4,AMUB	Do not use NEAT to model health & safety measures. Select measure from "Itemized Cost Tab".
		XHAR005	Exhaust Ventilation	each		
		XHAR010	Exhaust Ventilation with Makeup Air	each		
		XHAR015	Heat or Energy Recovery Ventilator	each		
Electrical		XHEL	Health and Safety Electrical		SFH,MHT,2TO4,AMUB	
		XHEL015	Upgrade or Repair Electric	each		
Miscellaneous Heating System work		XHHS	Health and Safety Heating System		SFH,2TO4,AMUB	Model boilers with NEAT. If the SIR ≥ 1.0, install as ECM. If SIR is <1.0 install as a Heat & Safety measure.
		XHHS005	Boiler Replace	each		
		XHHS010	Boiler Repair	each		
		XHHS015	Boiler Radiators, Repair or Replace	each		
		XHHS020	Furnace Replace	each		
		XHHS025	Furnace Repair	each		
		XHHS030	Ducts Repair or Replace	each		
		XHHS035	Space Heater Replace	each		
		XHHS040	Space Heater Repair	each		
		XHHS045	Wood Replace	each		
		XHHS050	Wood Repair	each		
	XHHS055	Electric Replace	each			
	XHHS060	Electric Repair	each			
Water Heater Replacement		XHHW	Health and Safety Hot Water		SFH,2TO4,AMUB SFH,MHT,2TO4,AMUB SFH,2TO4,AMUB SFH,MHT,2TO4,AMUB	Do not use NEAT to model health & safety measures. Select measure from "Itemized Cost Tab".
		XHHW004	Electric to Electric .94	each		
		XHHW005	Water Heater Replace	each		
		XHHW007	Gas power vent from conventional gas	each		
		XHHW008	Gas power vent from electric	each		
	XHHW010	Water Heater Repair	each			
Miscellaneous		XHSS	Health and Safety Structure		SFH,MHT,2TO4,AMUB	
		XHSS005	Chimney	each		
		XHSS010	Floors	each		
		XHSS015	Roof	each		
		XHSS020	Walls	each		
		XHSS030	Lead Paint Remediation	each		
Window and Door Replacement	Replace deteriorated windows and doors, in dwellings built prior to 1930, occupied by households with service priority.	XHSS035	Other Remediation	each	SFH,MHT,2TO4,AMUB	Health & Safety window and door replacement do not need to be modeled with NEAT.
		XHSS040	Door Replacement R9	sq ft	SFH,2TO4,AMUB	
		XHSS045	Window Replacement U .35	sq ft		

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Repair						
Repairs General	Repairs Necessary for the Installation of Weatherization Materials.	ZRAQ	Repair Air Quality			
		ZRAQ005	Dryer Venting	each		
		ZREL	Repair Electric Service		SFH,MHT,2TO4,AMUB	
		ZREL005	Upgrade or Repair Electric Service	each		
		ZREL015	Knob and Tube Replace Attic	each	SFH,2TO4,AMUB	
		ZREL020	Knob and Tube Replace Walls	each		
		ZRHS	Repair Heating System			
		ZRHS030	Thermostat Replacement - Not ENERGY ST,	each		Not required to model with NEAT. May model with NEAT.
		ZRHW	Repair Hot Water			
		ZRHW005	Water Heater Repair	each		
		ZRHW010	Plumbing Repair or Replace	each	SFH,MHT,2TO4,AMUB	
		ZRRS	Repair Structure			
		ZRRS005	Chimney	each		
		ZRRS010	Floors	each		
		ZRRS015	Roof	each		
ZRRS020	Walls	each				
Replacement Windows and Doors	Replace deteriorated windows and doors that cannot be repaired, if the building has a cumulative SIR of > 1.0 when tested with the NEAT audit	ZRRS030	Door Replacement R9	sq ft		Must Model with NEAT. Model windows as ECM or Repair. Model doors as Repair. Select measure from "Itemized Cost Tab". Include in SIR.
		ZRRS035	Window Replacement U .35	sq ft	SFH,MHT,2TO4,AMUB	
		ZRRS040	Other Repair	each		
		ZRRS045	Ventilation - Soffit/Roof/Gable	each		